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NATIONAL SURVEY  
*of*  
THE ECONOMIC STATUS  
OF THE HORSE

By  
**The Green, Fulton, Cunningham Co.**  
Detroit                      Chicago



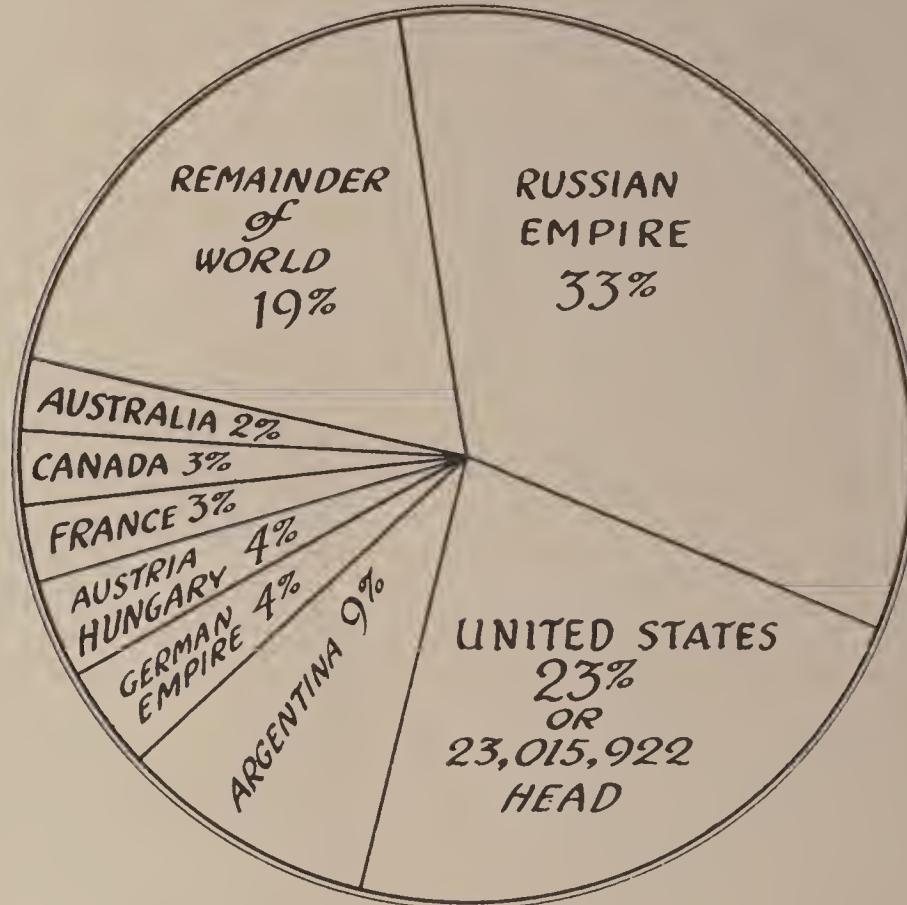
Chart \*1

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# World Population - Horses

**105,400,000 Head**

**1910**



$$\frac{1030}{1262}$$

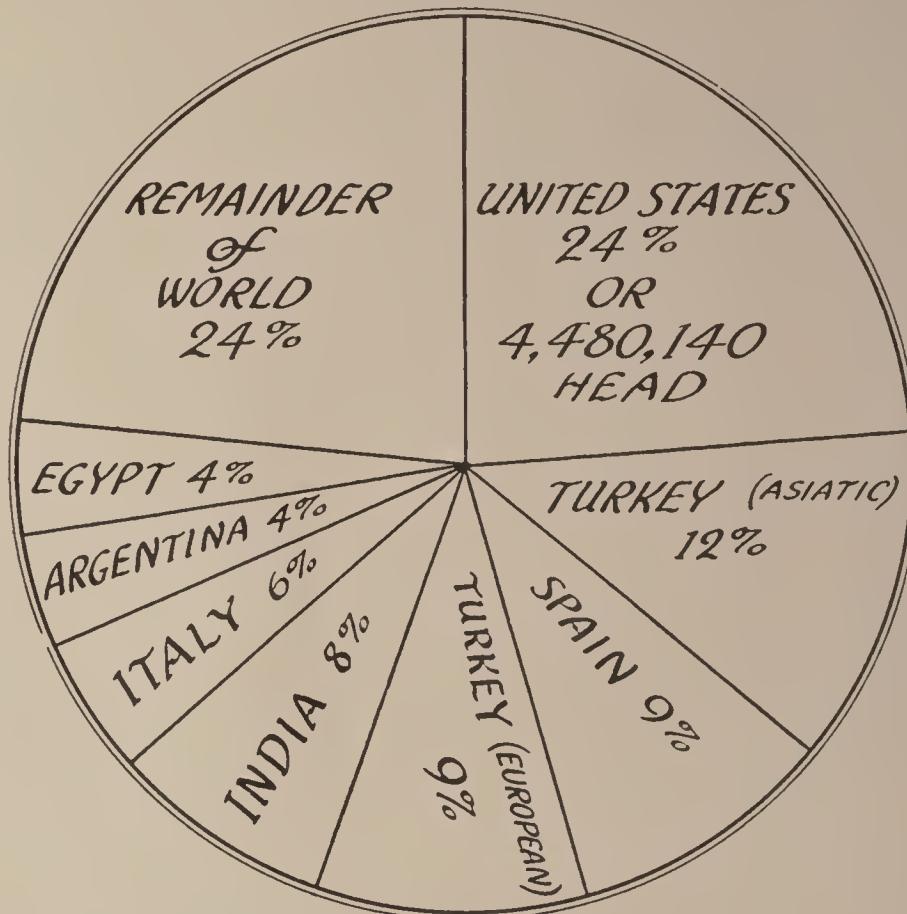
In 1910 the population of the United States as compared with the population of the balance of the world was approximately 6%; the land area of the United States as compared with the land area of the balance of the world was about 7%-notwithstanding 23% of the entire horse population of the world was within the borders of Continental United States. The world total was 105,400,000 head; The horse population of the United States 23,015,922 head. Approximately 86% of the horses in this country were on our farms and ranges-the remaining 14% were not on farms but engaged principally in transportation work in the cities.

*By - The Green-Fulton-Cunningham Co.  
Detroit - Chicago*

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JAN 16 1920

Chart #2 World Population-Mules and Asses  
20,000,000 Head  
1910



In 1910, of the 20,000,000 mules and asses in the world 4,480,140 head or approximately 24% were within the borders of Continental United States. In the United States they were not distributed anywhere nearly equal among the several states, but were found to be in greatest numbers in the states east of the rockies and particularly in the southern states. All but 270,000 of the mules in the United States were on our farms and ranges

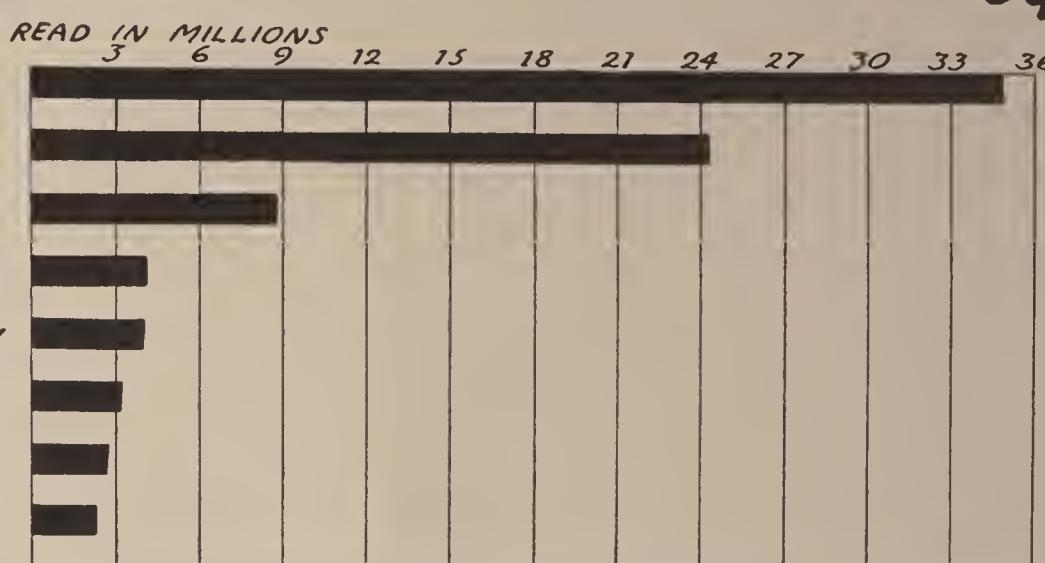
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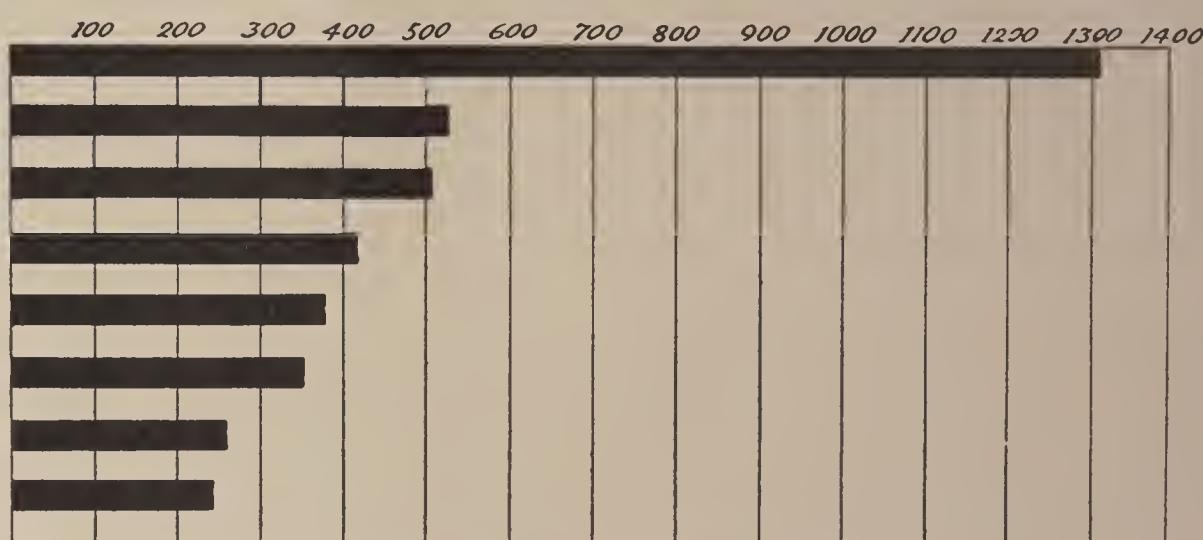
# Chart #3

- (A) Leading Countries in Horse Population
- (B) " " " Horses per 1000 Persons
- (C) " " " " Square Mile

**A**  
 Russian Empire  
 United States  
 Argentina  
 German Empire  
 Austria-Hungary  
 France  
 Canada  
 Australia



**B**  
 Argentina  
 Australia  
 Uruguay  
 Canada  
 New Zealand  
 Cuba  
 United States  
 Russian Empire



**C**  
 Denmark  
 Netherlands  
 Belgium  
 German Empire  
 Austria-Hungary  
 United Kingdom  
 Roumania  
 Turkey (EUROPEAN)

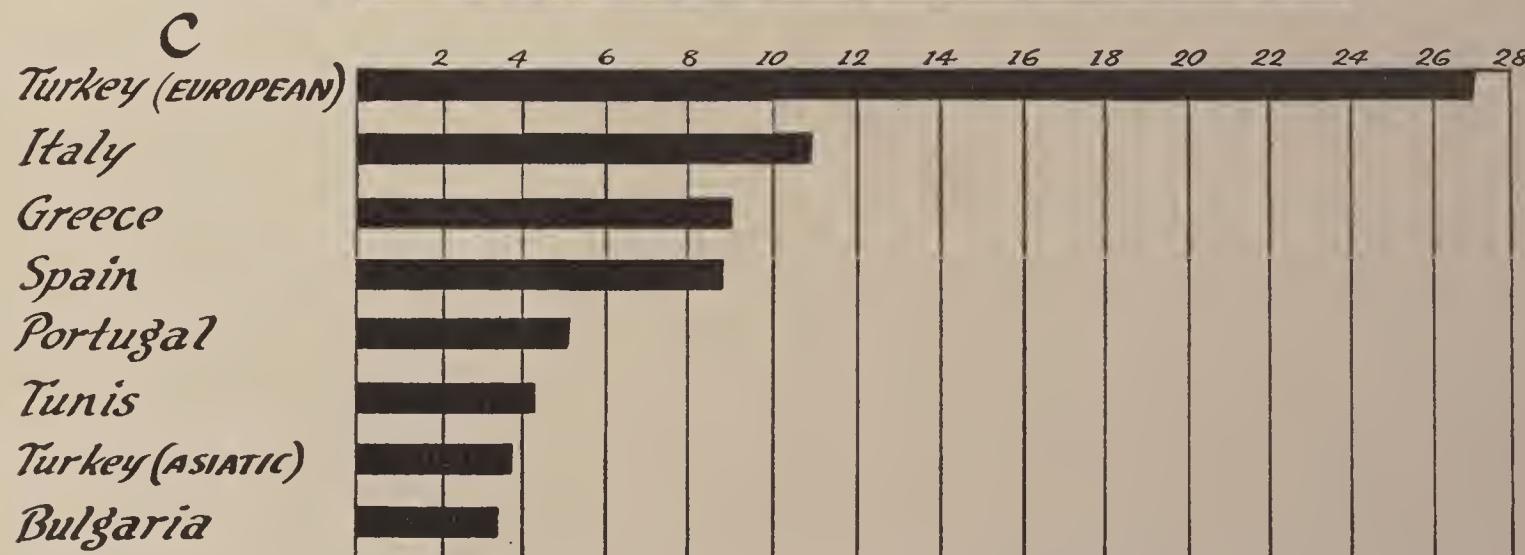
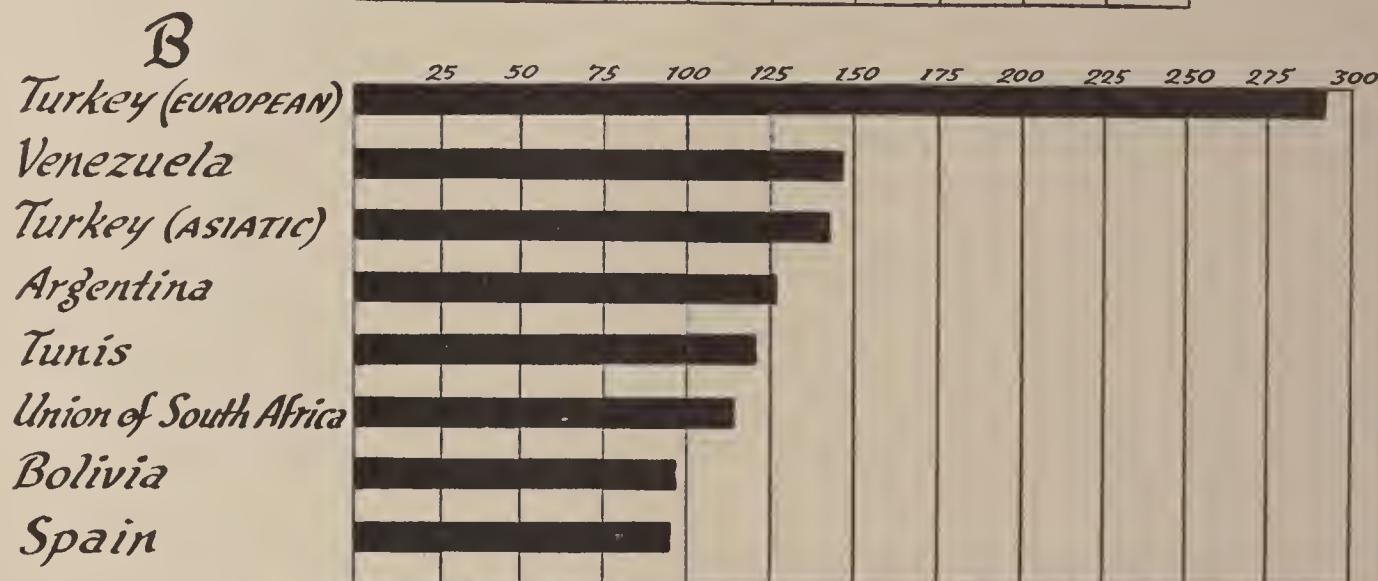


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# Chart #4

(A) Leading Countries in Mule Population  
 (B) " " " Mules per 1000 Persons  
 (C) " " " " Square Mile

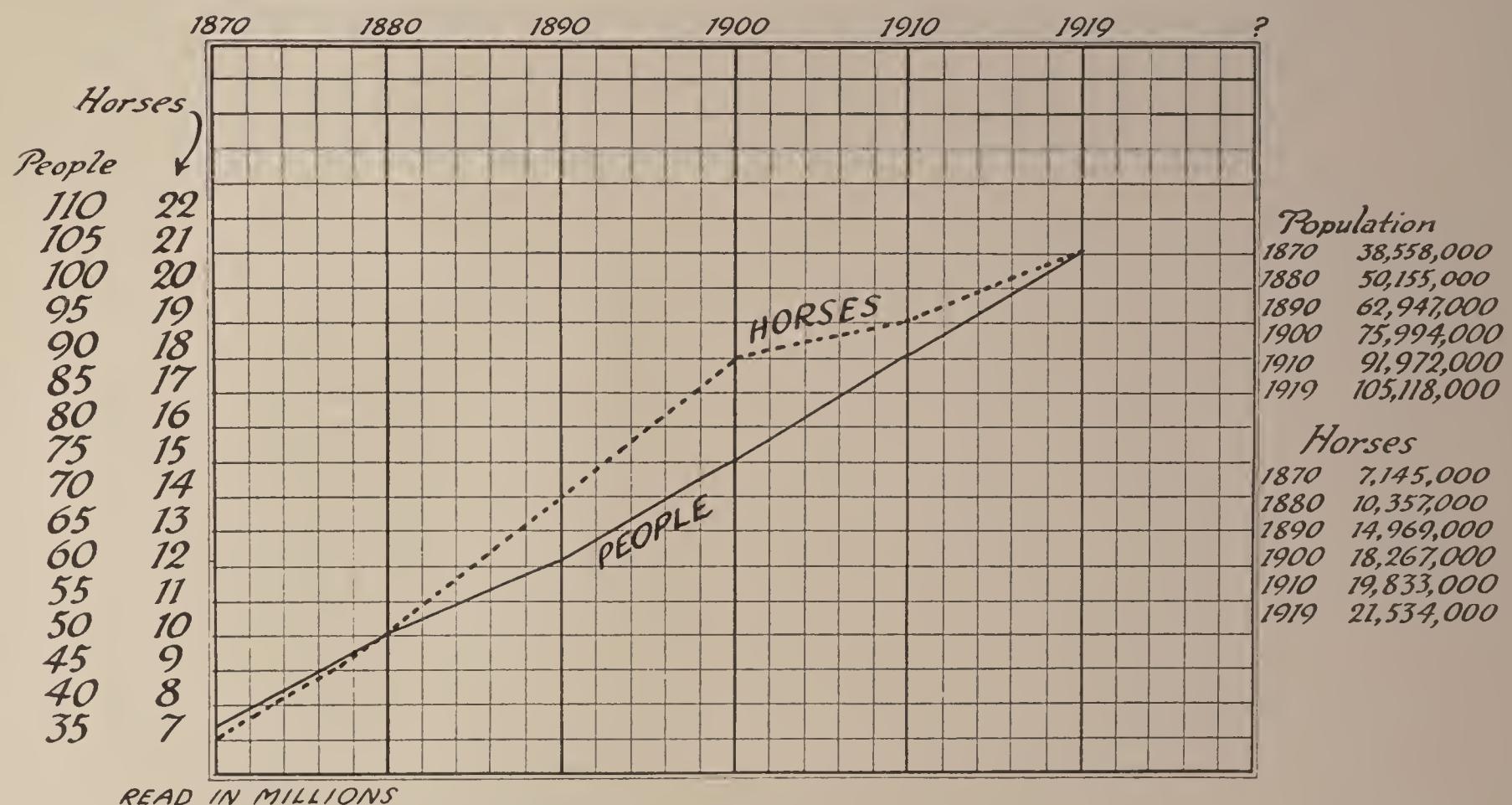


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Chart 5

1870~1919  
Increase in Number of Horses  
Compared With  
Increase in population  
United States



READ IN MILLIONS

1870~1880

Population  
increase 30%  
Horse  
increase 44.9%

1880~1890

Population  
increase 25.5%  
Horse  
increase 44.5%

1890~1900

Population  
increase 20.7%  
Horse  
increase 22%

1900~1910

Population  
increase 21%  
Horse  
increase 8.5%

1910~1919

Population  
increase 14.2%  
Horse  
increase 8%

Average 10 year increase

Population  
increase 22.2%  
Horse  
increase 25.5%

1870~1919

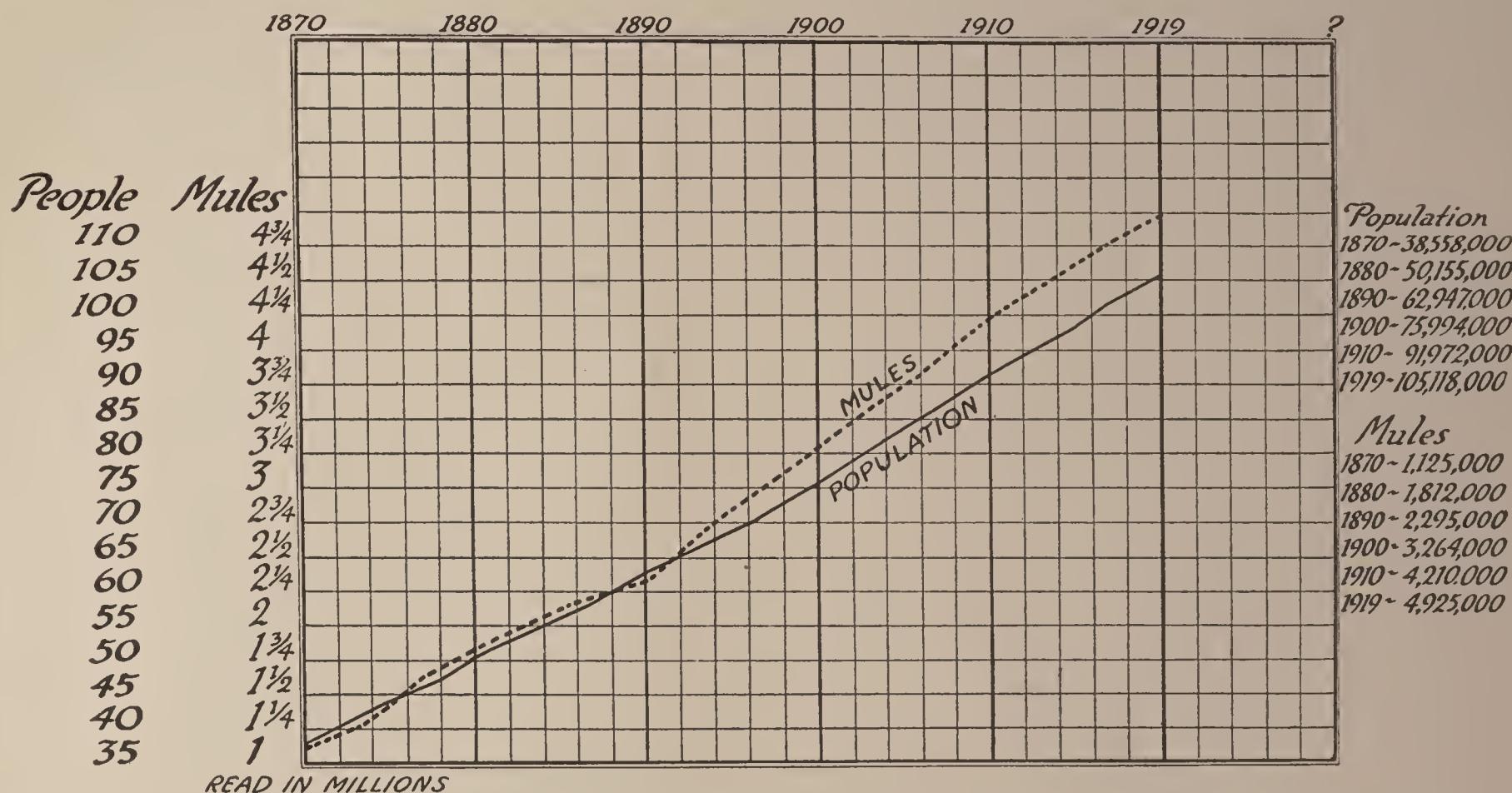
Population  
increase 172.6%  
Horse  
increase 203.3%

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Chart #6

1870-1919  
Increase in Number of Mules  
Compared With  
Increase in Population  
United States



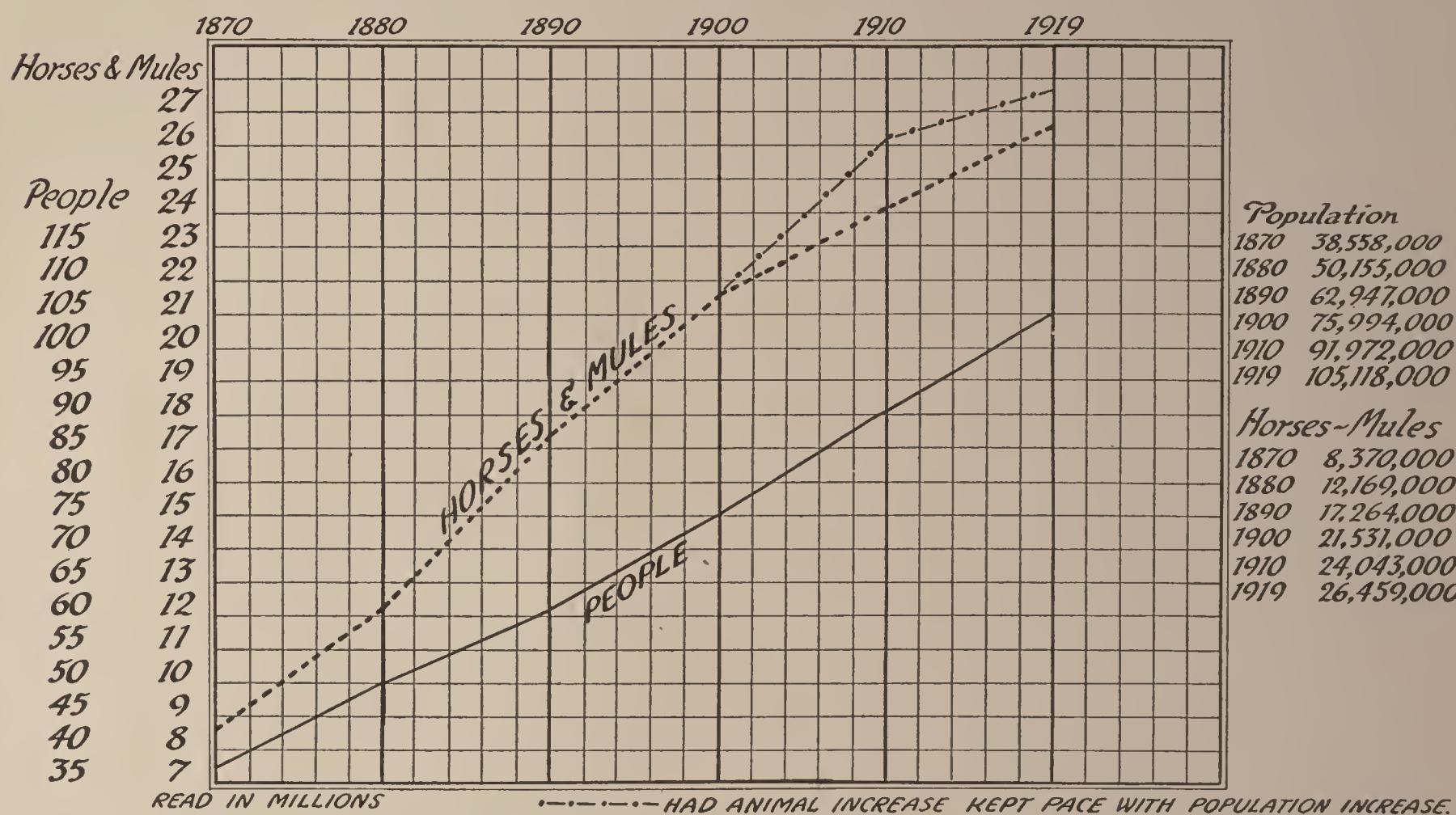
1870-1880	1880-1890	1890-1900	1900-1910
Population increase 30%	Population increase 25.5%	Population increase 20.7%	Population increase 21%
Increase in number of mules 60.9%	Increase in number of mules 26.6%	Increase in number of mules 42.2%	Increase in number of mules 28.9%
1910-1919	Average 10 year increase	1870-1919	
Population increase 14.2%	Population increase 22.2%	Population increase 172.6%	
Increase in number of mules 16.9%	Increase in number of mules 35.1%	Increase in number of mules 337.7%	

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Chart #7

1870-1919  
Increase in Number of Horses, Mules  
Compared With  
Increase in Population - United States



1870-1880

Population  
increase 30%  
Horse & Mule  
increase 46%

1880-1890

Population  
increase 25.5%  
Horse & Mule  
increase 41.8%

1890-1900

Population  
increase 20.7%  
Horse & Mule  
increase 24.1%

1900-1910

Population 21%  
increase  
Horse & Mule  
increase, 11.6%

1910-1919

Population  
increase 14.2%  
Horse & Mule  
increase 10.2%

Average 10 year increase

Population  
increase 22.2%  
Horse & Mule  
increase 26.5%

1870-1919

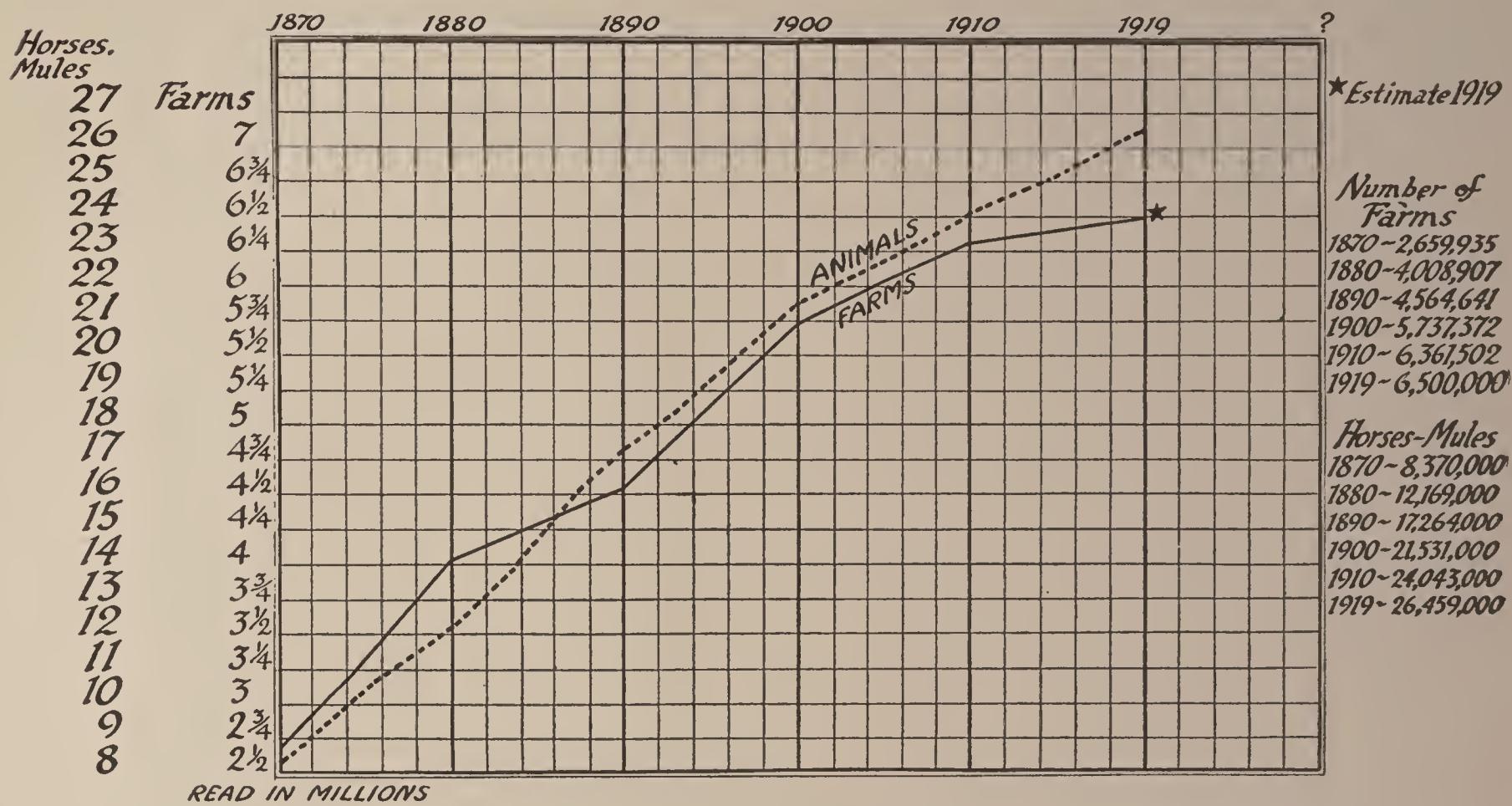
Population  
increase 172.6%  
Horse & Mule  
increase 228.2%

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Chart #8

1870-1919  
Increase in Number of Horses, Mules  
Compared With  
Increase in Number of Farms



1870-1880

Increase in farms 50.7%  
Increase horses and mules 45.3%

1880-1890

Increase in farms 13.8%  
Increase horses and mules 41.8%

1890-1900

Increase in farms 25.6%  
Increase horses and mules 24.1%

1900-1910

Increase in farms 10.8%  
Increase horses and mules 11.6%

1910-1919

Increase in farms 2.1%  
Increase horses and mules 10.7%

Average 10 year increase

Increase in farms 20.6%  
Increase horses and mules 26.5%

1870-1919

Increase in farms 144.3%  
Increase horses and mules 228%

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Chart #9

1870-1919

# Increase in Number of Horses, Mules Compared With Increase in Improved Acres

The increase in work animals has kept close step with the development of our arable lands.

In 1870 there was a horse or mule in the farmers hands for every 22.5 acres of improved land.

In 1880 the ratio was 1 to 23.4 acres. In 1890 it was 1 to 20.7 acres. In 1900-1 to 19.2 acres, and in 1910 there was 1 work animal to every 19.8 acres of improved land.

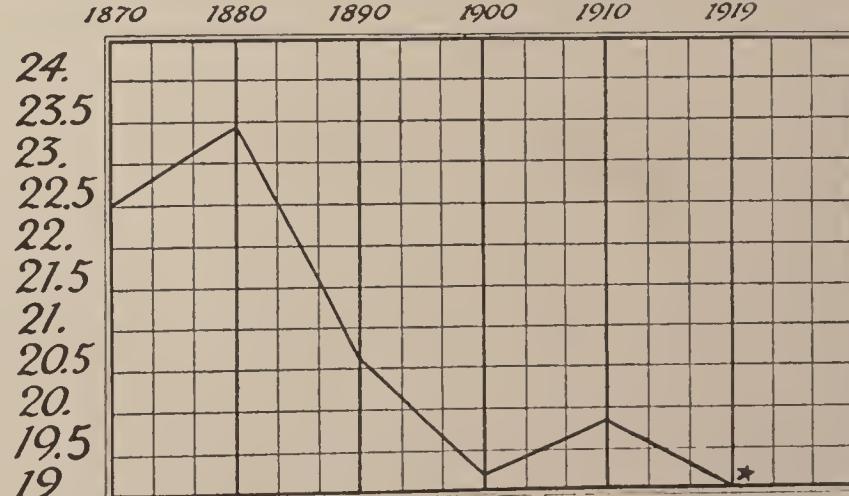
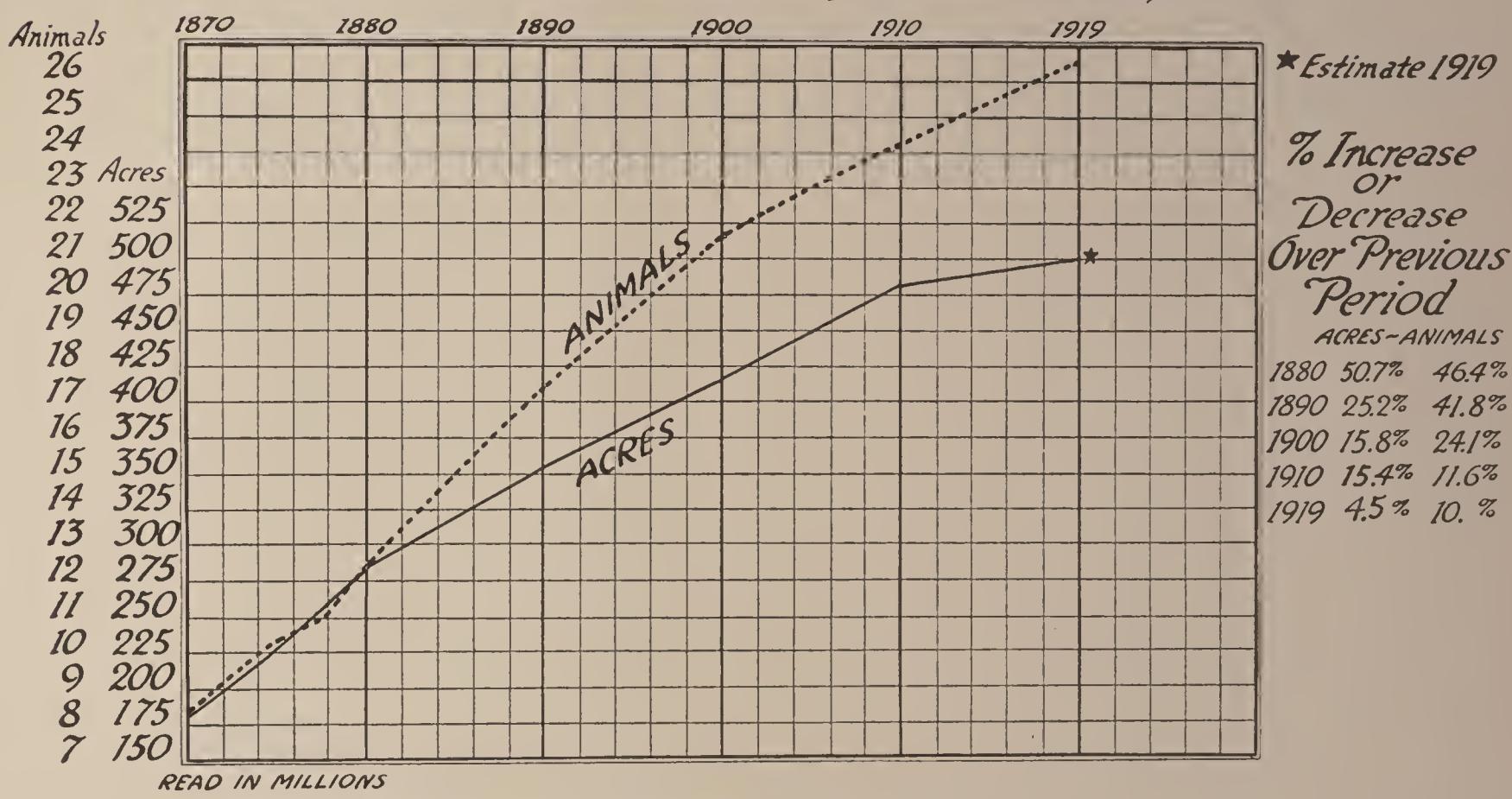


Chart #8-A  
Number of  
Improved Acres  
per  
Each Work  
Animal

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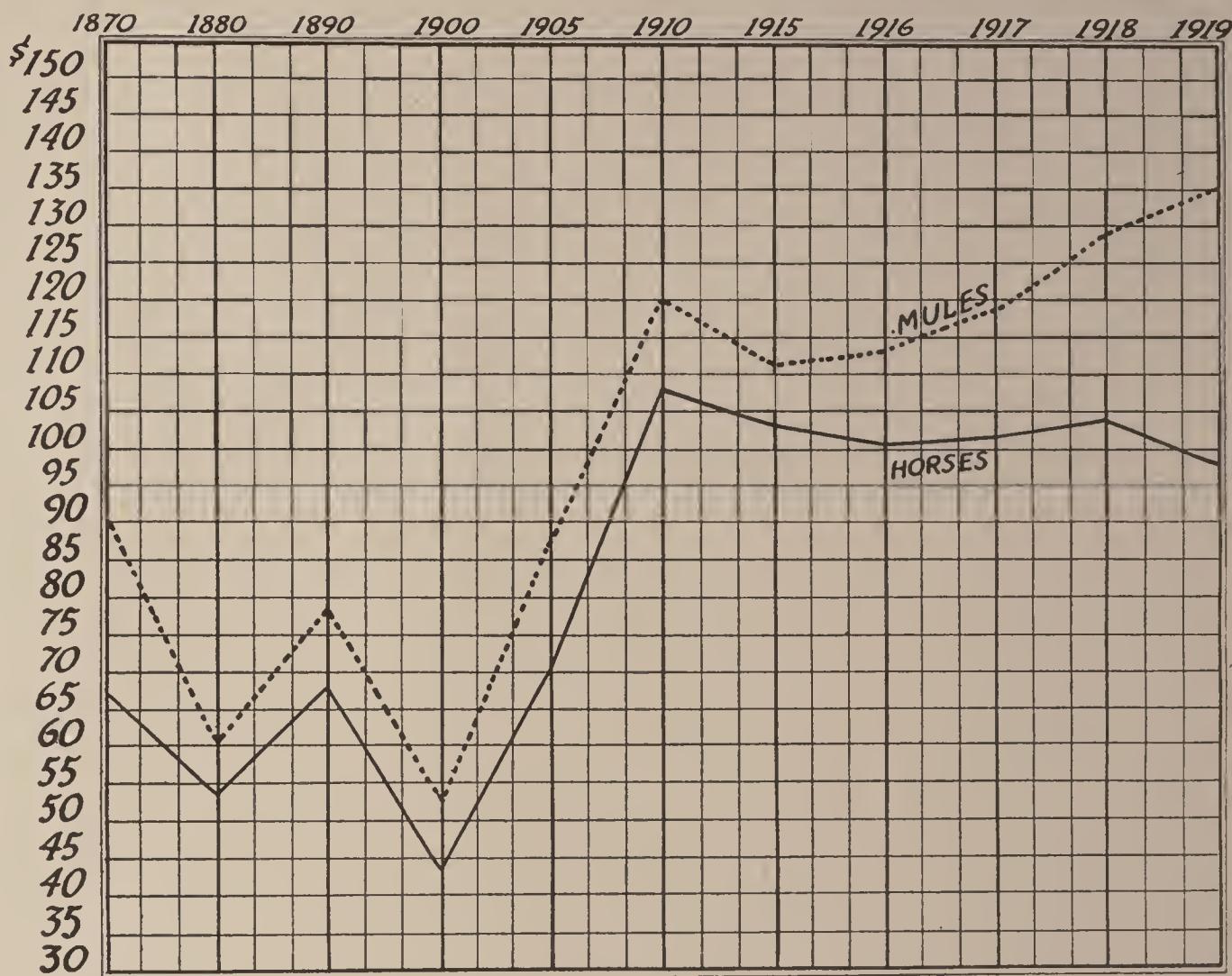


The Green, Fulton, Cunningham Co.

Chart\*10

1870-1919

Average Value of Farm Horses-Mules  
Every 10 years 1870-1900  
" 5 " 1900-1915  
Yearly 1915-1919



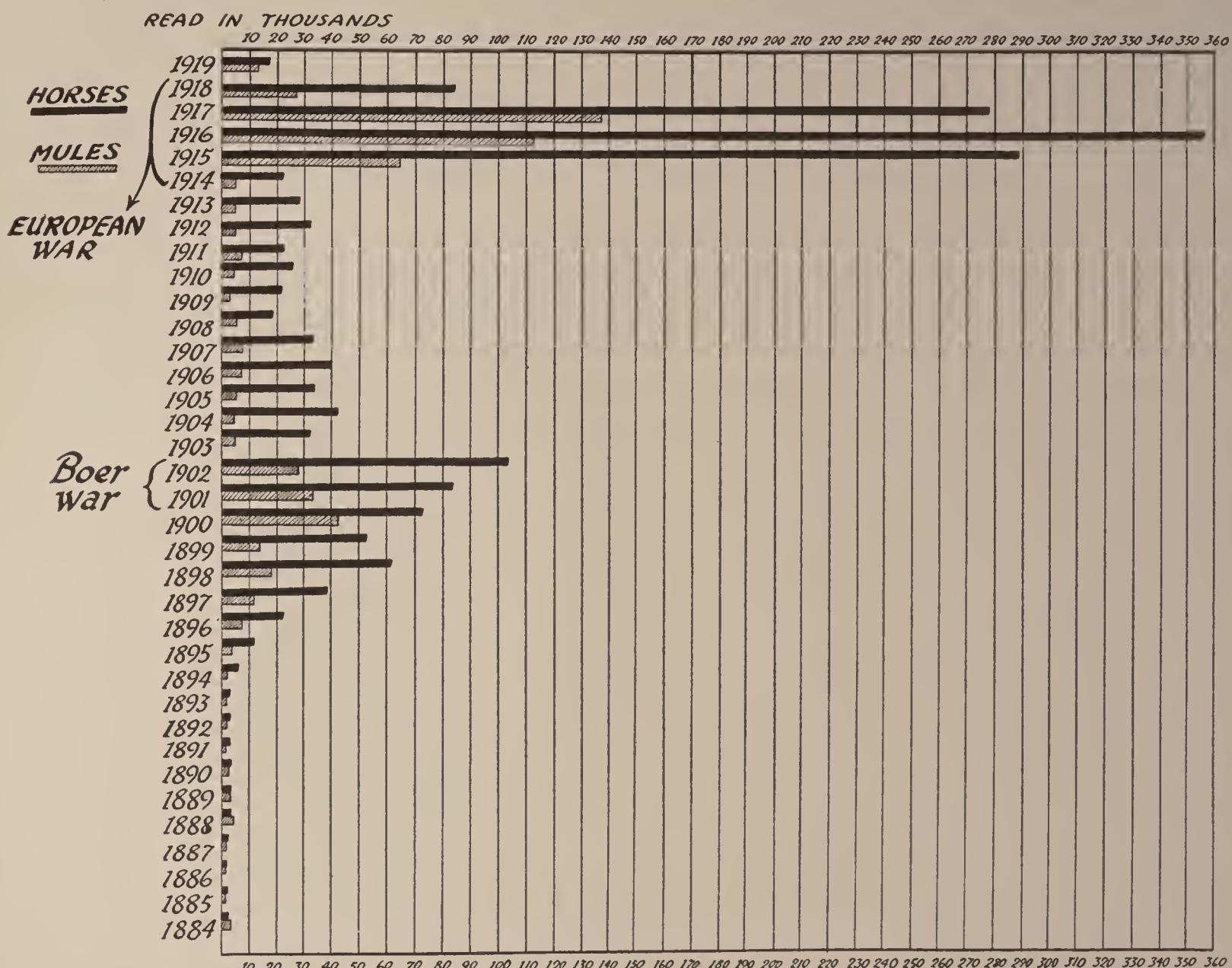
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Horses	Value	Average	Mules
\$67	—	1870	— \$90
54	—	1880	— 61
68	—	1890	— 78
44	—	1900	— 53
70	—	1905	— 87
108	—	1910	— 120
103	—	1915	— 112
101	—	1916	— 113
102	—	1917	— 118
104	—	1918	— 128
98	—	1919	— 135



Exports  
Chart #11

# Number of Horses and Mules Exported Yearly 1884 to 1919 Incl.



Under normal conditions exports decrease as our agricultural development expanded - During years of greatest agricultural development exports were smallest.

Yearly exports prior to  
1895-less than 10,000 head

Average yearly exports

1904 to 1913  
30,900 horses  
5,432 mules

Average yearly exports

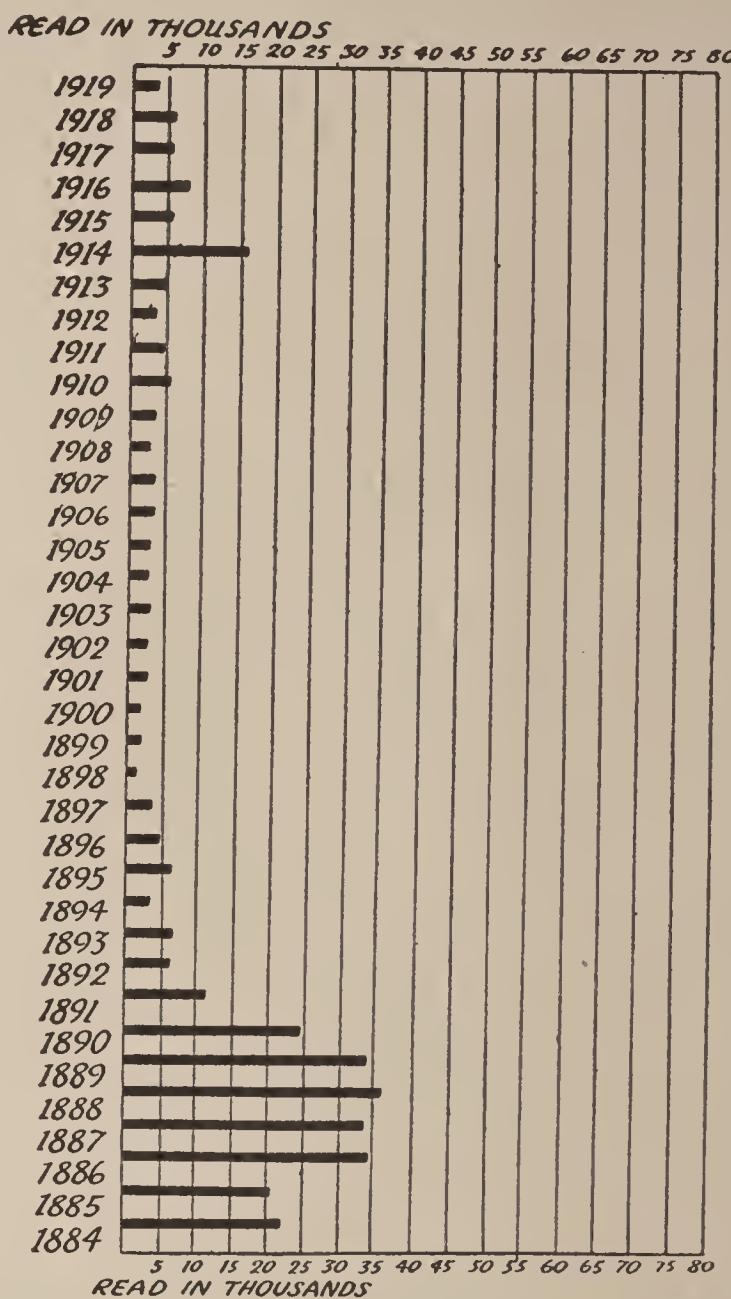
1914 to 1918  
235,786 head, or  
less than 1% of number of  
horses and mules on our farms  
Jan. 1st. 1919.

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Chart #12

# Number of Horses Imported Yearly 1884 to 1919 Incl.



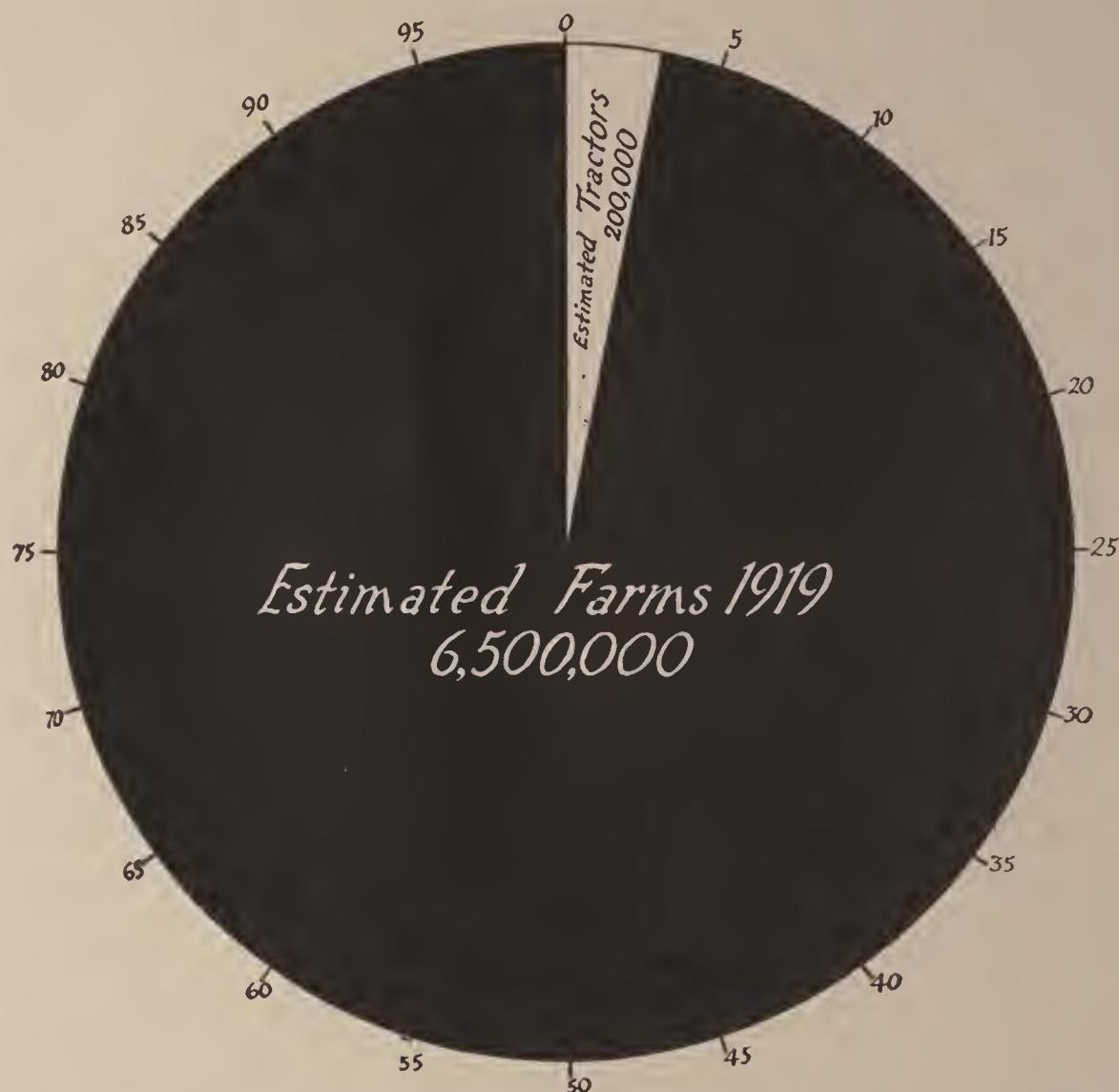
During the years of our greatest agricultural development imports were largest. The reduction following 1890 indicates a condition of domestic oversupply due to a falling off in the very rapid agricultural development of the United States - 1880-1890.

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Chart #13

*Contrasting Estimated Number of Tractors in Use 1919 With Estimated Number of Farms 1919*



*Estimated Number of farms 1919 (conservative) 6,500,000  
" " " tractors in use 1919 (liberal) 200,000*

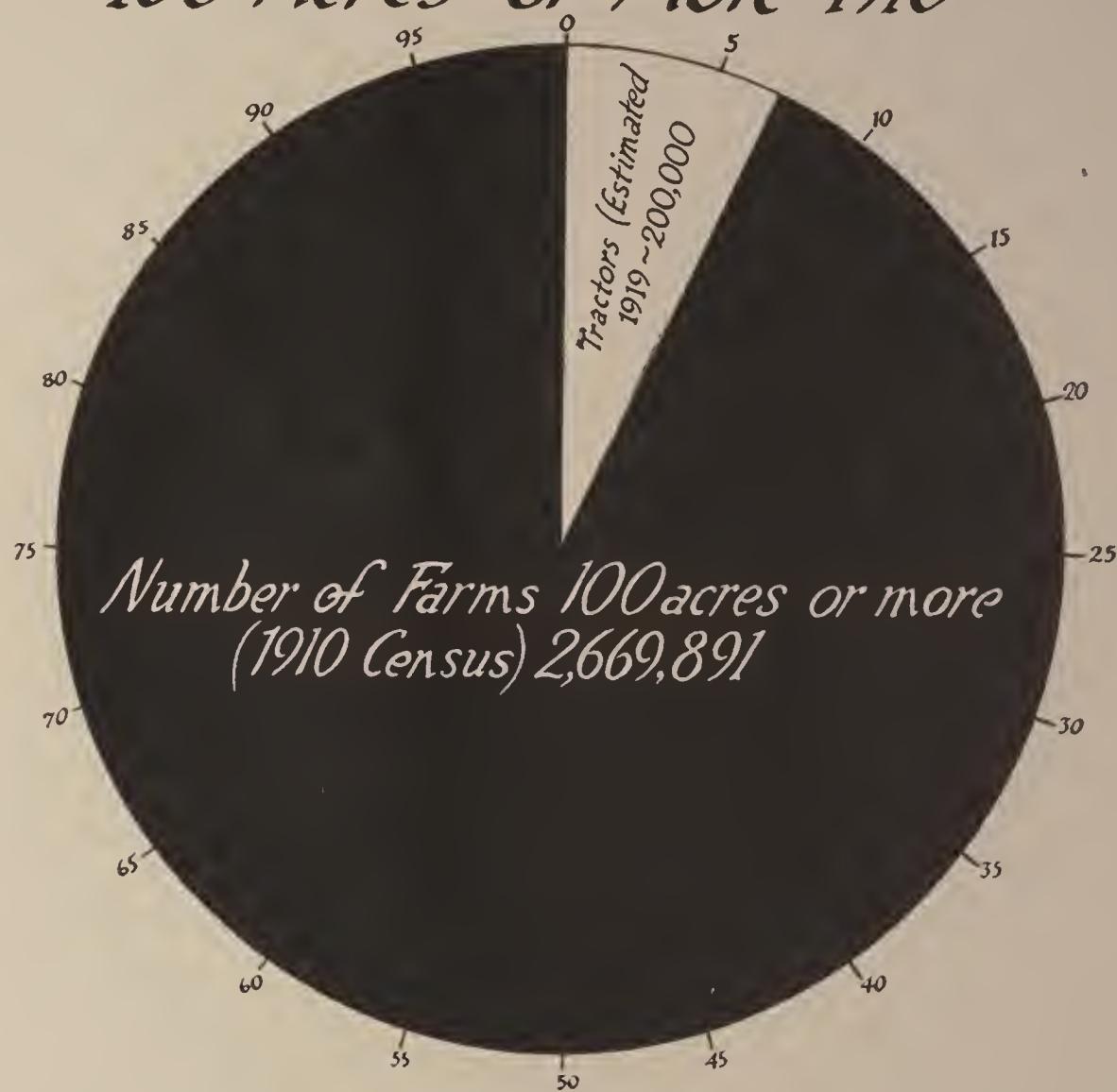
*One tractor on every 32½ farms  
About 3% of the farms operate tractors*

*By-The Green-Fulton-Cunningham Co.  
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Chart #14

*Contrasting the Number of Tractors  
in Use 1919 With Number of Farms  
100 Acres or More-1910*



Number of farms 100 acres or more (1910) 2,669,891

Number of tractors (1919) estimate 200,000

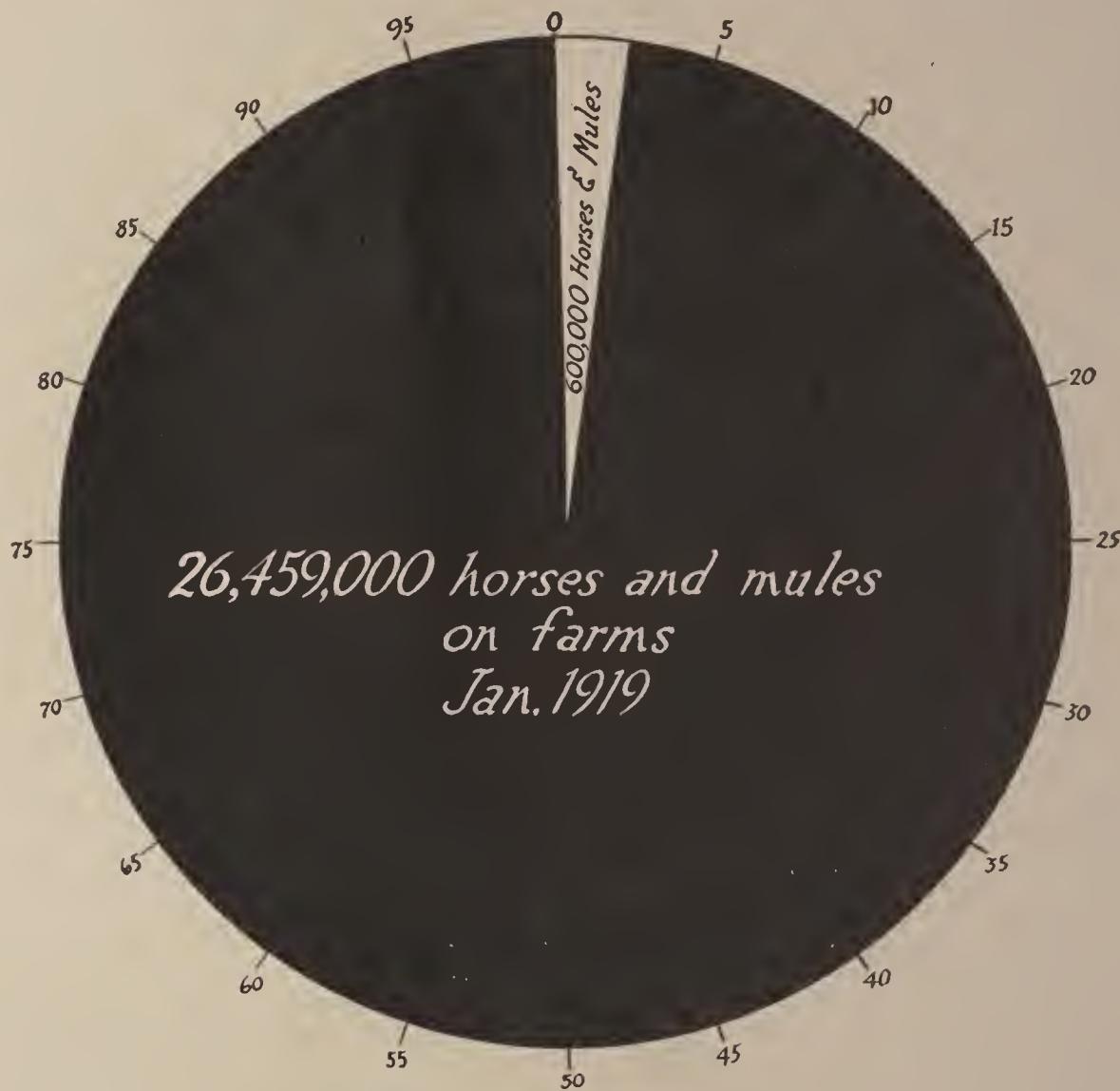
One tractor on every 13 farms of 100 acres or more. About 7% of such farms have a tractor.

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## Chart #15

*Contrasting Estimated Number of Animals Displaced by Tractors With Total Work Animal Population. Granting That Each Tractor Has Displaced 3 Horses or Mules - The Number Displaced Would be 2.2% of the Total Number of Horses-Mules on Farms 1919*



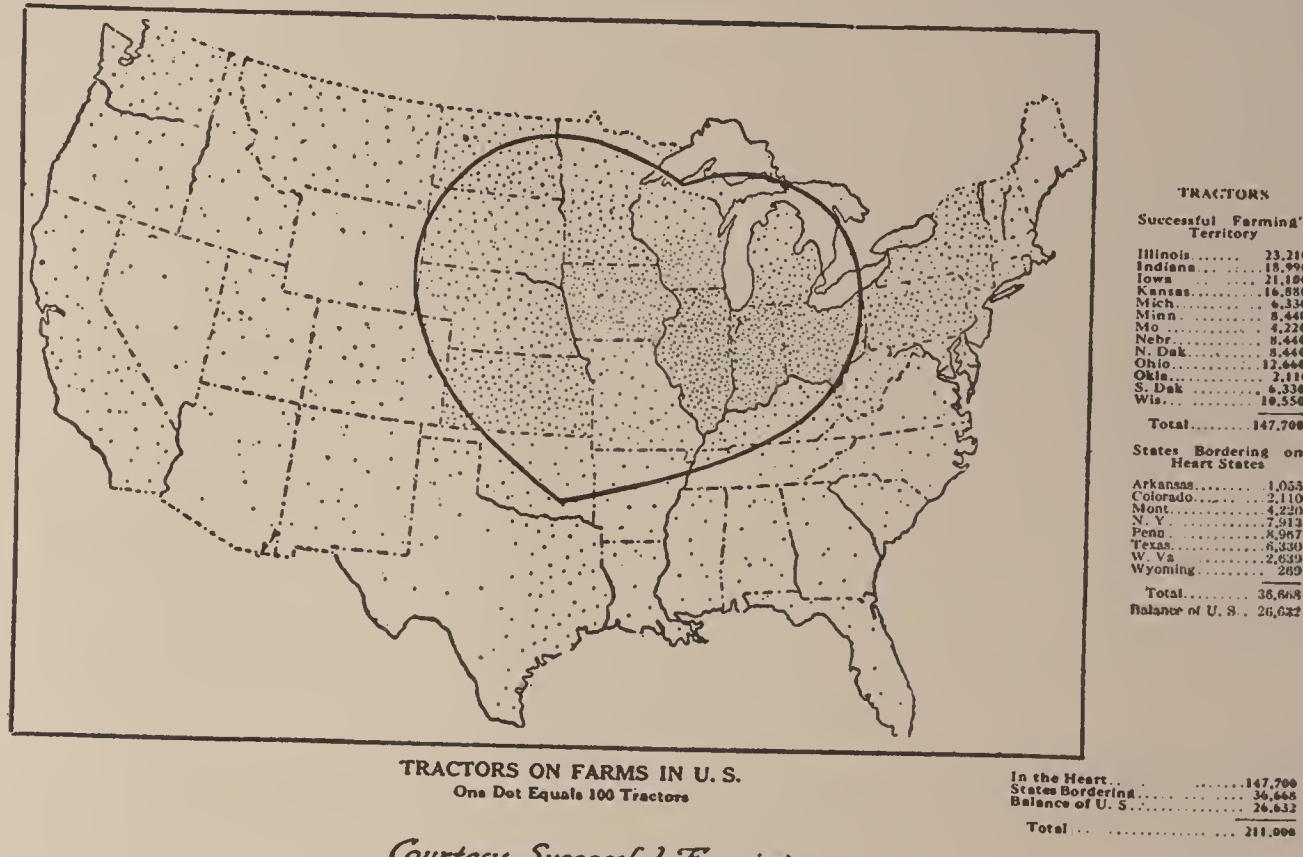
Number of tractors 200,000  
Horses-mules displaced by each tractor 3 head  
total displacement 2.2%

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Chart #15(A)

*Distribution of Tractors 1919, and What Happened to the Horse and Mule in the Principal Tractor States-1910-1919*



981,986 more horses-mules in the principal tractor states than there were in 1910.

	NUMBER-HORSES & MULES 1910	1919
Illinois	1,600,700	1,614,000
Indiana	895,812	923,000
Kansas	1,335,465	1,413,000
Iowa	1,547,750	1,635,000
Ohio	933,074	919,000
Wisconsin	617,526	697,000
North Dakota	658,294	858,000

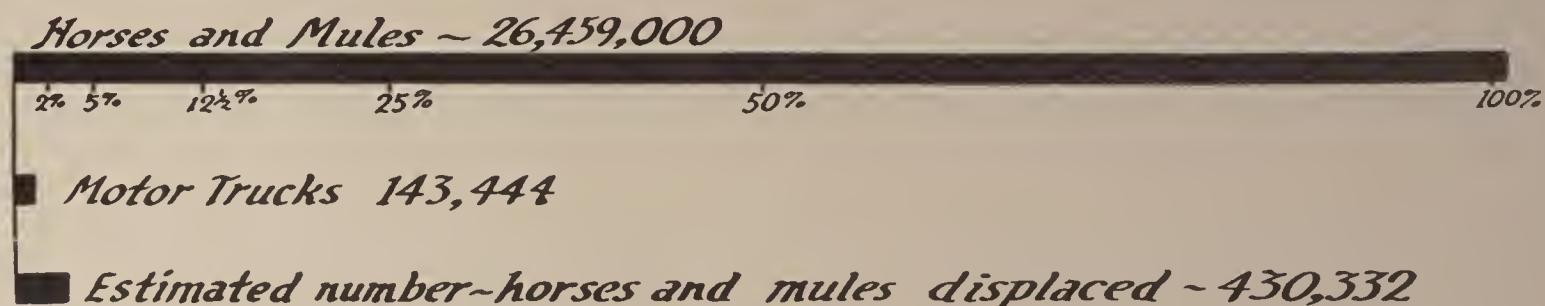
	NUMBER-HORSES & MULES 1910	1919
Michigan	613,733	670,000
Minnesota	758,959	956,000
Missouri	1,416,087	1,414,000
Nebraska	1,091,783	1,158,000
Oklahoma	1,000,025	1,032,000
South Dakota	681,786	843,000
<b>TOTAL</b>	<b>13,151,014</b>	<b>14,133,000</b>

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## Chart\*16

*Showing the Relation of the Estimated Number of  
Motor Trucks on Farms- to Number of Work Animals.  
Jan. 1<sup>st</sup> 1919*



*More than 184 times as many horses and  
mules as motor trucks on our farms.*

*Number-Motor-Trucks-143,444*

*Estimate as to number of horses  
and mules displaced by each truck-3*

*Total Estimated Displacement 430,332*

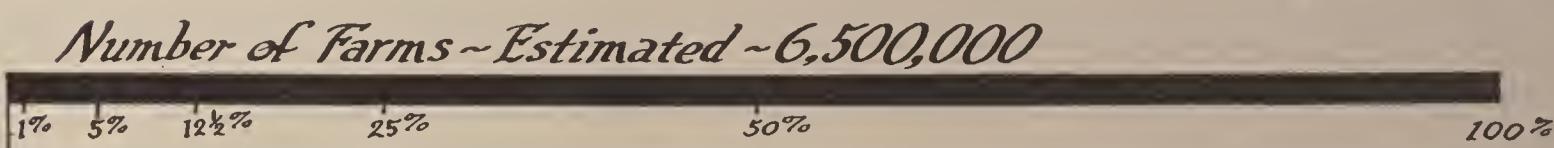
*Relation estimated number  
displaced bears total-1.7%*

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## Chart #17

*Showing the Relation of the Estimated  
Number of Motor Trucks on  
Farms to the Number of Farms*  
*Jan. 1<sup>st</sup> 1919*



Number - Motor Trucks in Farm Use  
Estimated 143,444

# 1 Motor Truck to Every 48 Farms

Number of Farms 1919  
(Conservative Estimate) 6,500,000

Number of Motor Trucks on Farms  
(Liberal Estimate) - 143,444

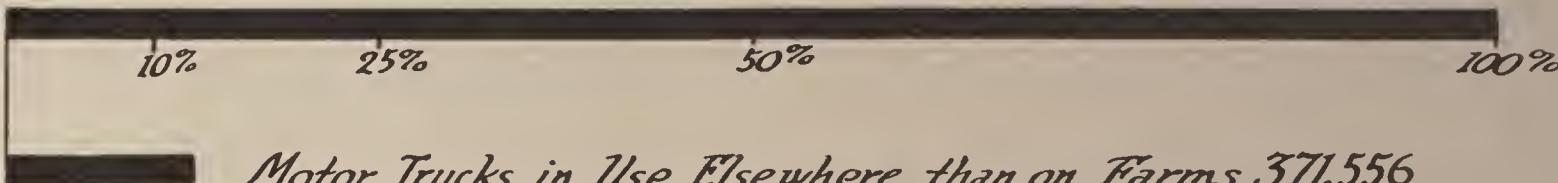
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## Chart #18

### Showing Relation Number Motor Trucks Not on Farms Jan, 1<sup>st</sup> 1919 To Number Horses and Mules Not on Farms 1910

Horses-Mules Not on Farms 3,353,161 ~ 1910



More than 9 times as many horses and mules  
as motor trucks in non agricultural service.

Number horses-mules (In agricultural service 1910)-3,353,161

Motor trucks in use Jan, 1919-371,556  
(Not including 143,444 trucks in farm service)

Figures on motor trucks in use  
from- Facts and Figures  
Automobile Industry  
Also Motor List Estimate

Later figures than 1910 census not available  
as to number of horses and mules not on farms.  
Although average yearly increase 1900-1910  
was 24,237-there probably has been no change  
either in the way of increase or decrease since 1910

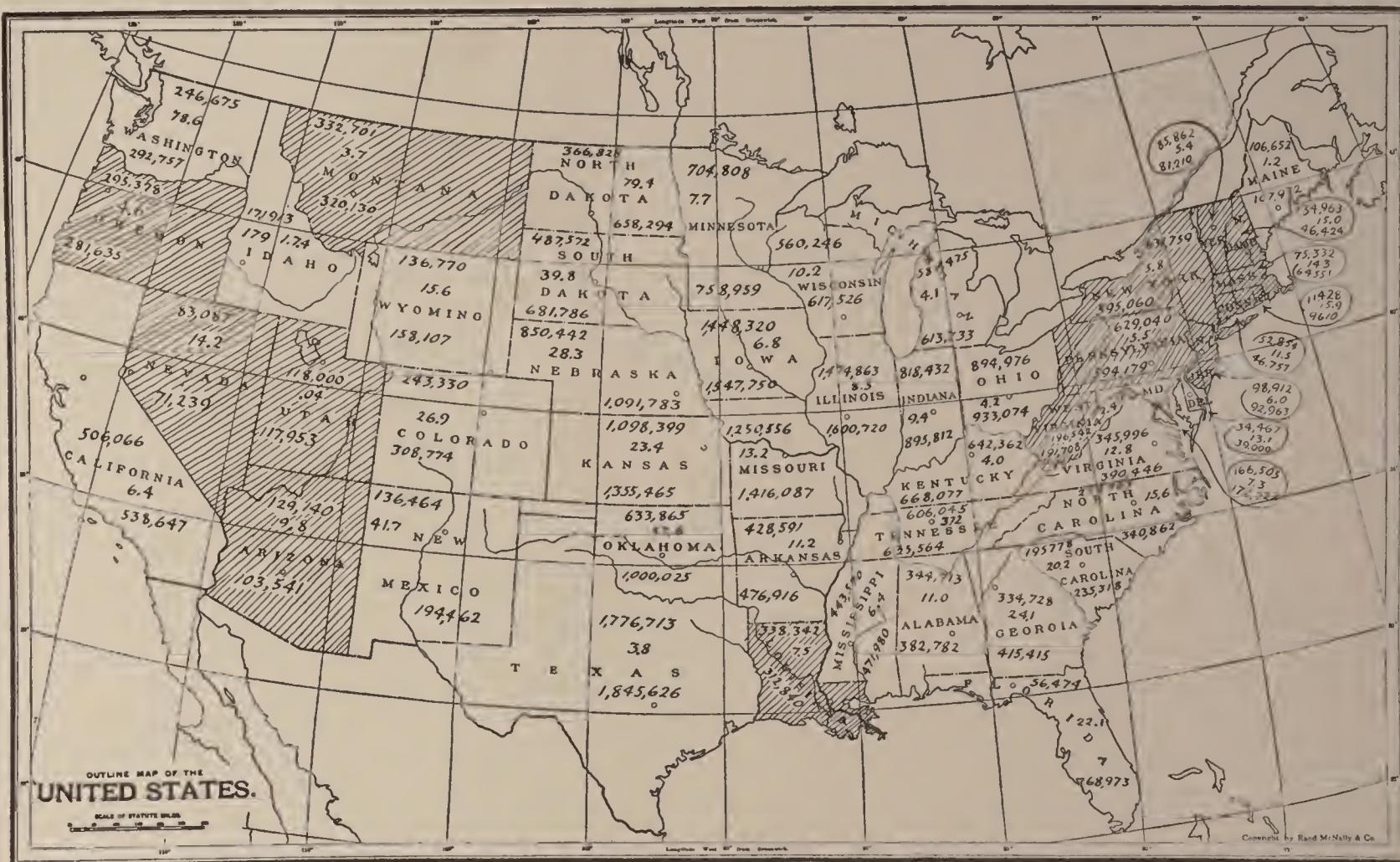
Figures on trucks in  
farm use based on  
B.F. Goodrich Co's Estimate.

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Map #1

*Showing Percentage of Increase or Decrease  
Number of Horses & Mules  
1900-1910*





Map #2

*Showing Percentage of Increase  
or Decrease in Population  
1900-1910*





Map #3

*Showing the Increase or Decrease  
in Improved Acreage  
1900-1910*



UPPER FIGURES ~ 1900  
LOWER " ~ 1910

- States where horse and mule increase kept pace with or exceeded increase in improved acreage or where decrease was not as great as acreage decrease.
- States where horse and mule increase failed to keep pace, or where horse and mule decrease was greater than acreage decrease.

TOTAL 1900 ~ 414,498,487  
" 1910 ~ 478,451,750

Taken from Statistical Abstract  
of United States 1918

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# Map #4

*Showing Percentage of Increase or  
Decrease in Number of Farms From  
1900-1910*



*UPPER FIGURES - 1900  
LOWER " - 1910*

States where horses

States where horse and mule increase kept pace with or exceeded increase in number of farms.  
 " " " " " failed to keep pace with increase in number of farms.

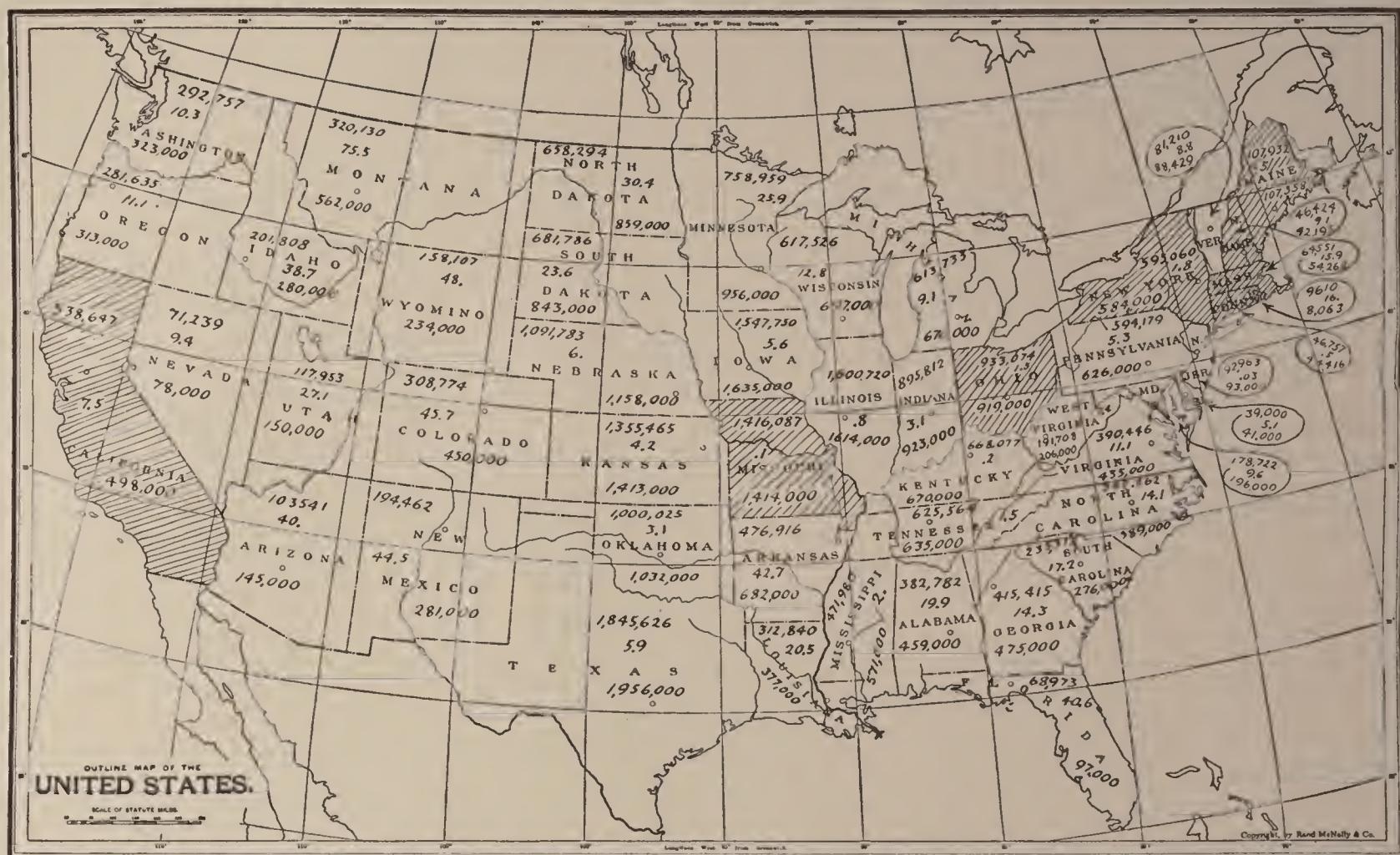
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# The Green, Fulton, Cunningham Co.

# Map\*5

*Showing Percentage of Increase or Decrease  
Number of Horses and Mules  
1910-1919*



UPPER FIGURES - 1910  
LOWER " - 1919

In these states the number of horses and mules increased.  
 " " " " " " " " " " decreased.

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Map # 6

*Showing Percentage of Increase  
or Decrease in Population  
1910-1919*



*UPPER FIGURES - 1910  
LOWER " - 1919*

States where horse and mule increase kept pace or exceeded population increase.  
 " " " " " failed to keep pace with " "

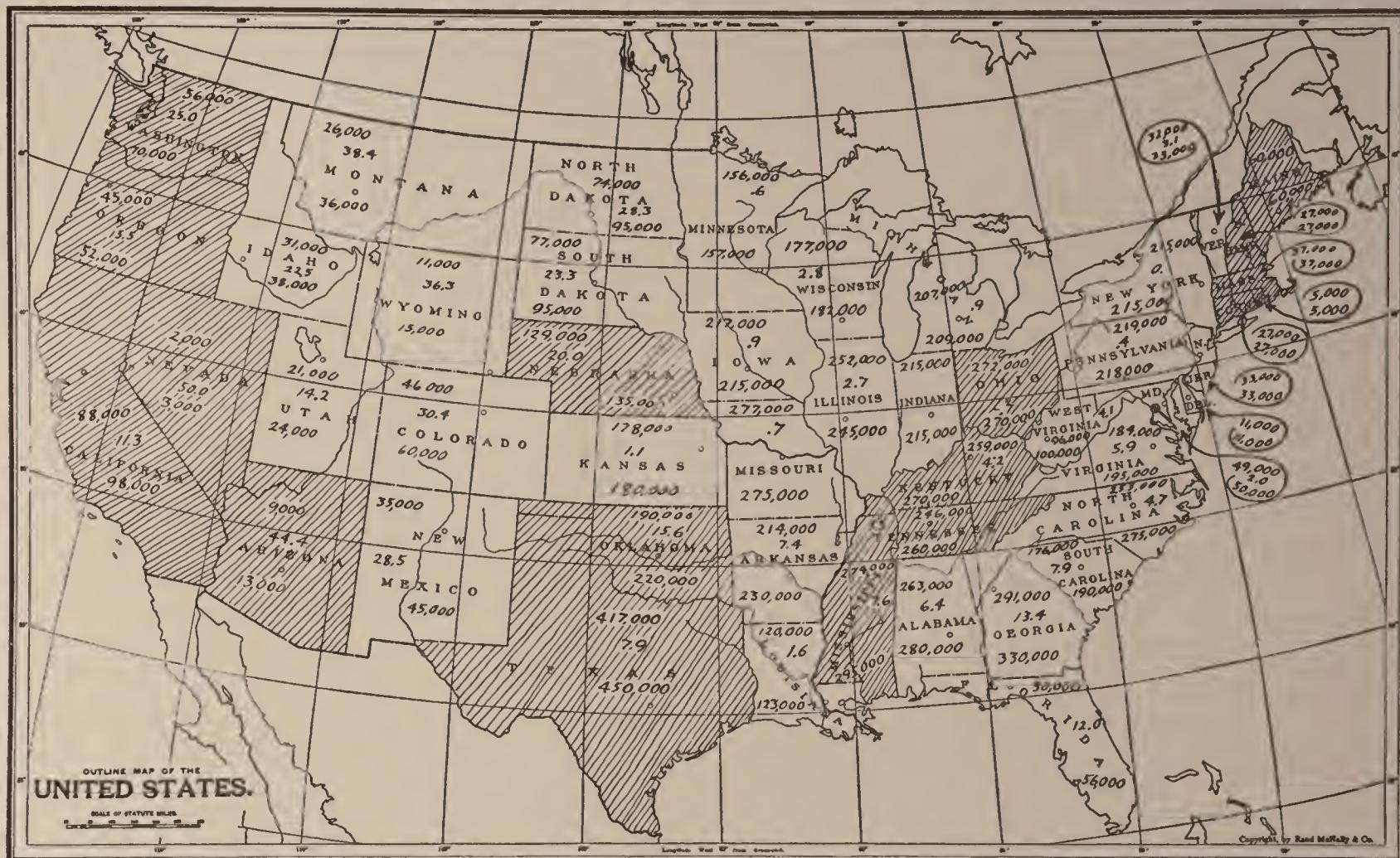
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The Green, Fulton, Cunningham Co.

Map #7

*Showing Percentage of Increase in Number of Farms  
1910-1919*





# Map #8

*Number of Horses & Mules Not on Farms 1910  
Showing Percentage of Increase or Decrease  
Over 1900*



*UPPER FIGURES ~1900  
LOWER " ~1910*

States of increase  
 " " decrease

1900 - Total - 3,110,789  
1910 - " - 3,353,161  
95% horses - 5% mules

*1900-1910  
Yearly Increase  
24,237*

*Percentage of increase  
1900 ~ 1910 ~ 7%*

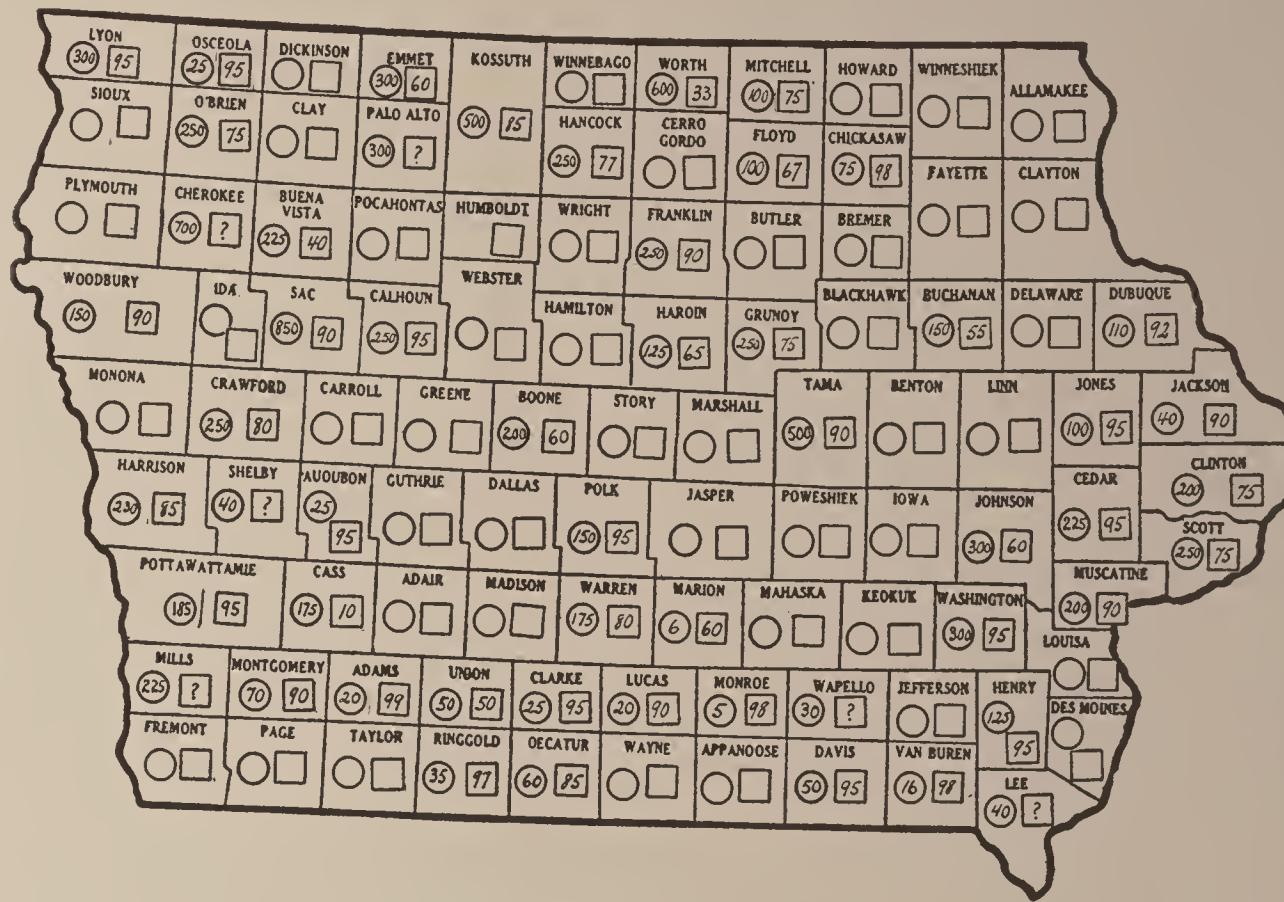
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Map #9

# Effect of the Tractor on the Horse in Iowa

*As Indicated by County Agents' Reports*



- Number in Circle = Estimated Number of Tractors in County.
- Number in Square = Estimated Percentage of All Farm Work Still Done by Horses.

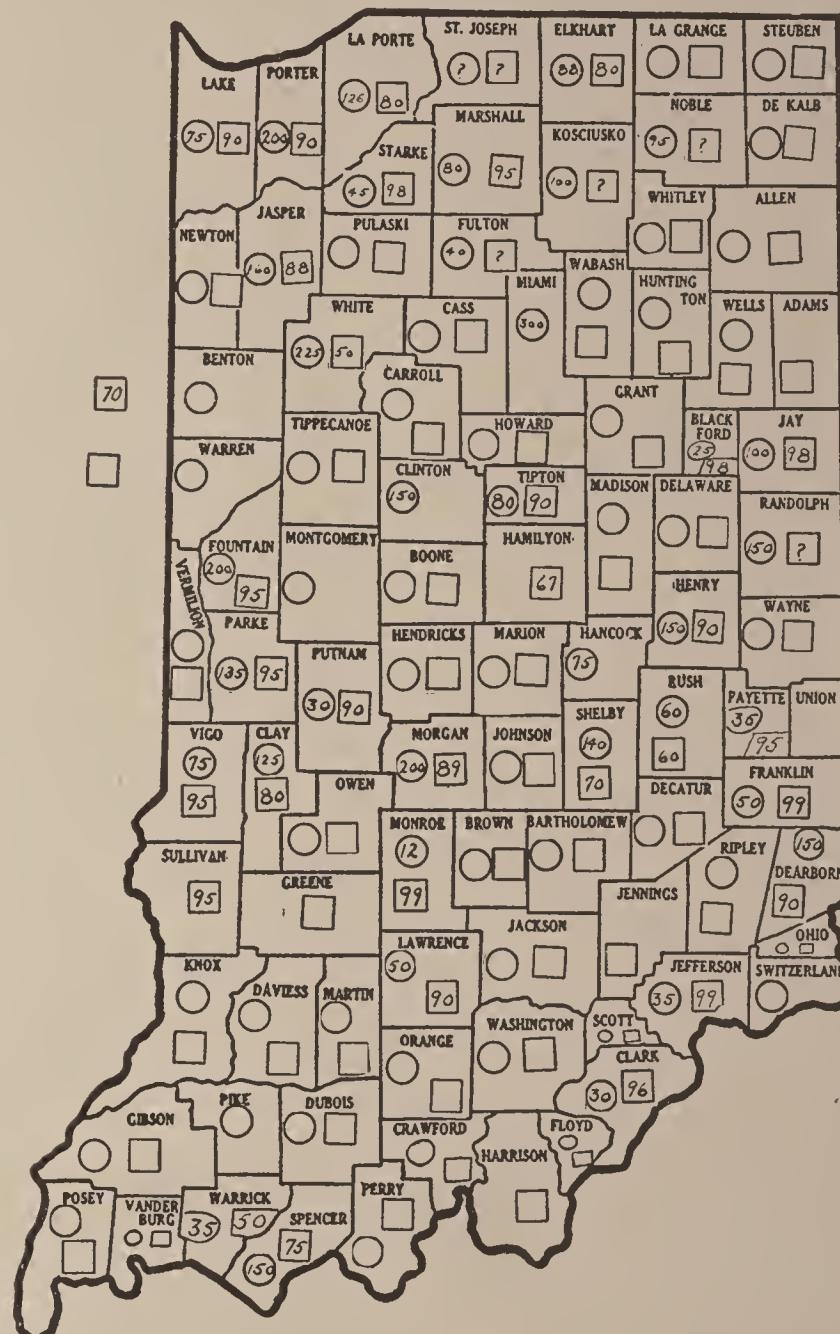
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Map #10

# *Effect of the Tractor on the Horse in Indiana*

*As Indicated by County Agents' Reports*



- Number in Circle = Estimated Number of Tractors in County.
- Number in Square = Estimated Percentage of All Farm Work Still Done by Horses.

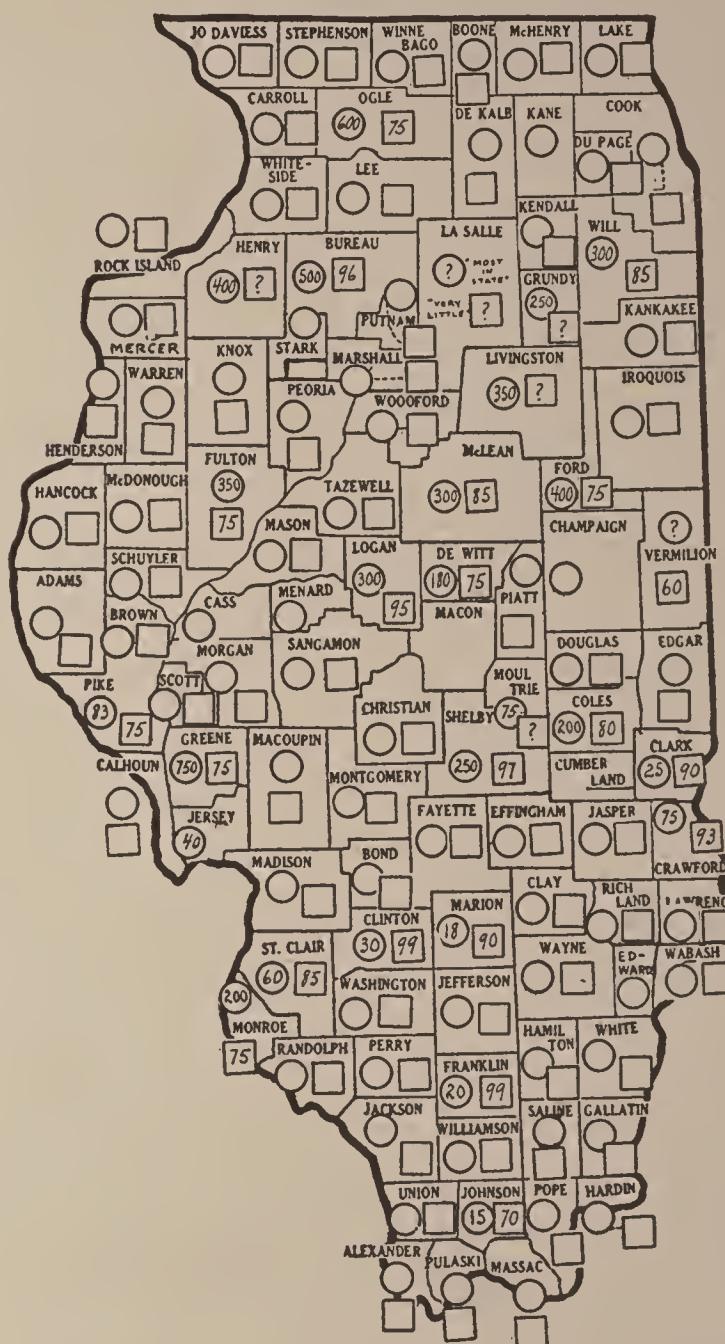
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Map #11

# *Effect of Tractor on the Horse in Illinois*

*As Indicated by County Agents' Reports.*



- Number in Circle = Estimated Number of Tractors in County
- Number in Square = Estimated Percentage of All Farm Work Still Done by Horses.

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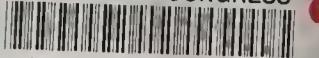








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